Claims

What is claimed is:

1. A substrate coating for the electrostatic deposition 5 of dry powder medicaments for use in the manufacture of pharmaceutical dosage forms comprising micronized polyethylene glycol (PEG), with molecular weight in the range of 1,000 to 20,000, and having a particle size of 1- 100 μm .

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2. The substrate coating of claim 1 having a melting point in the range of 50 - 63°C.

The substrate coating of claim 1 wherein the PEG has 3. a molecular weight in the range of 6,000 - 8,000.

4. The substrate coating of claim 1 also containing a plasticizer.

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5. The substrate coating of claim 4 wherein the plasticizer is selected from castor oil, polyethylene glycol, propylene glycol or glycerine.

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The substrate coating of claim 1 also containing one or more coloring, pacifying, flavoring and/or sweetening agents.

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- 7. A pharmaceutical composition comprising an edible substrate having micronized drug substance with a particle size of 1 100 µm deposited on the surface of the substrate by electrostatic dry powder deposition, and a film coating on the substrate and drug substance consisting essentially of micronized polyethylene glycol (PEG), with molecular weight in the range of 1,000 to 20,000, and having a particle
- 8. The pharmaceutical composition of claim 7 wherein the film coating has a melting point in the range of 50 63°C.

size of 1- 100 μm .

- 9. The pharmaceutical composition of claim 7 wherein the PEG has a molecular weight in the range of 6,000 - 8,000.
- 20 10. The pharmaceutical composition of claim 7 wherein the PEG film coating (dried) constitutes from about 1 to about 10, percent by weight of the total weight of the solid dosage form.
- 25 11. The pharmaceutical composition of claim 7 wherein the edible substrate is comprised of a tablet core.
- 12. The pharmaceutical composition of claim 8 wherein the tablet core is prepared by compressing a mixture of microcrystalline cellulose (99 -99.5%) and magnesium stearate (0.5 1%).
- 13. The pharmaceutical composition of claim 7 wherein the drug substance is selected from one or more estrogens and/or progestins.

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- 14. The pharmaceutical composition of claim 13 wherein the drug substance is a combination of norgestimate and ethinyl estradiol.
- 15. In a process for manufacturing pharmaceutical unit dosage forms by the electrostatic deposition of dry powder medicament to a substrate, the improvement comprising coating the substrate in place with dry micronized polyethylene glycol (PEG), melting the dry polyethylene glycol coating and allowing it to cool whereupon a protective coating is formed.
- 16. A method of depositing negatively charged dry powder medicament on a negatively charged substrate by an electrostatic dry powder deposition process, the method comprising reversing the charge of the medicament to a positive charge by mixing the negatively charged medicament with micronized polyethylene glycol (PEG), at the ratio of medicament to PEG of 1:1 to 1:60, and then depositing the mixture onto the negatively charged substrate.
- 25 17. The method according to claim 16 wherein the PEG has a molecular weight in the range of 1,000 to 20,000 and a particle size of 1-100 μm .
- 18. The method according to claim 16 wherein the PEG has a melting point in the range of 50-63°C.
 - 19. The method according to claim 16 wherein the PEG has a molecular weight in the range of 6,000 to 8,000.